

ABSTRACT

An object of the present invention is to provide a non-contact IC card reading/writing apparatus having a superior reception characteristic.

A non-contact IC card reading/writing apparatus of the present invention is arranged by employing: a loop antenna for supplying both electric power and a transmission signal to a non-contact IC card by way of an electromagnetic induction effect and for acquiring a reception signal from the non-contact IC card by way of a load variation; a resonant circuit unit for resonating the loop antenna at a desirable frequency; a wireless transmitting unit for supplying both electric power and transmission data via the resonant circuit unit to the loop antenna; and a wireless receiving unit for acquiring a reception signal from the loop antenna via the resonant circuit unit; and is arranged in such a manner that data transmitted from the non-contact IC card is demodulated from the reception signal by a demodulating circuit. In the non-contact IC reading/writing apparatus, the resonant circuit unit, the wireless transmitting unit, and the wireless receiving unit are coupled to each other via any one of a directional coupler, a circulator, and an isolator.